

## 本邦産蚜亞族の目録と四新種

### A List of Japanese Aphidini with the Description of Four New Species

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TRIBE APHIDINI

SUBTRIBE Aphidini

Genus *Cerosipha*

***Cerosipha lycopicola* SHINJI n. sp.**

Alate viviparous female

Body oblong, green. Head broader than long, infusate. Eyes dark red, with ocular tubercles of the same colour. Proboscis reaching beyond the middle coxae, apical half dusky to black, the basal half being yellowish. Antennae 5 articulated, about as long as the body, infusate and imbricate throughout the length, III longer than twice IV but shorter than V, provided with about 5 circular sensoria arranged in a row on the basal half, IV longer than the base of V. flagellum about 3 times as long as the base. Thorax black on both the dorsum and venter. Wings subhyaline, veins and stigma somewhat yellowish brown, fore wings with media twice branched, hind wing with both media and cubitus present. Legs with the distal half of tibiae and tarsi including claws black, the rest being light green. Abdomen yellowish with a pair of black maculae at the bases of cornicles. Cornicles subcylindric, infuscated. Cauda subconical, with 3-4 pairs of bristles, black. Anal plate, entire, black.

Measurements in mm:

Length of body 0.87 Length of fore wing 1.65

Antennal articles (III) 0.24 (IV) 0.12 (V) base 0.07 flagellum 0.22

Lengths of femora fore 0.18 middle 0.21 hind 0.30

Lengths of tibiae fore 0.39 middle 0.36 hind 0.45

Apterous viviparous female

Body oval, light yellow to yellowish green, with rather a few hairs. Head broader than long, with a few short hairs. Frontal tubercles almost lacking. Eyes red, with ocular tubercles of the same colour. Proboscis reaching to the hind coxae, distal half infusate, the basal half being concolourous with the body. Antennae 5 articulated, shorter than body, I, II, and V black throughout, III and IV black at their apices only, the remaining portions being concolourous with the body, III as long as IV and the base of VI taken together. Legs stout, distal parts of tibiae and tarsi including claws infusate, the remaining parts and articles being concolourous with the body. Cornicles

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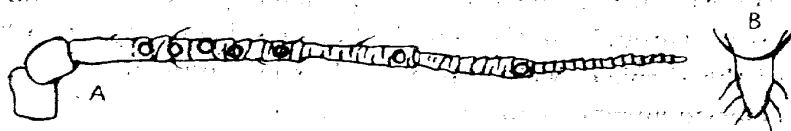


Fig. 1

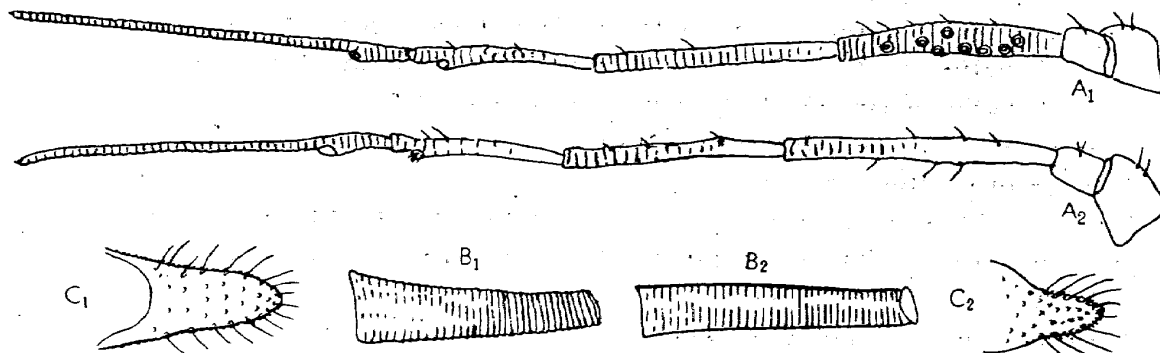


Fig. 2

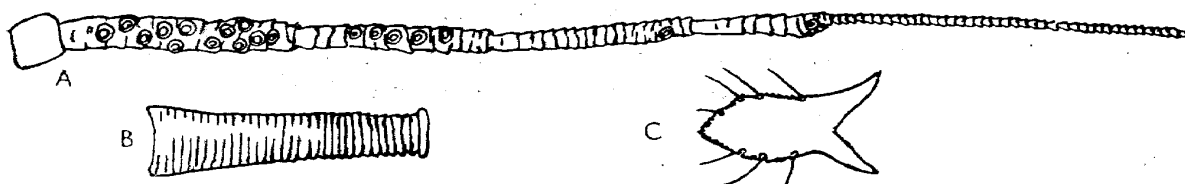


Fig. 3

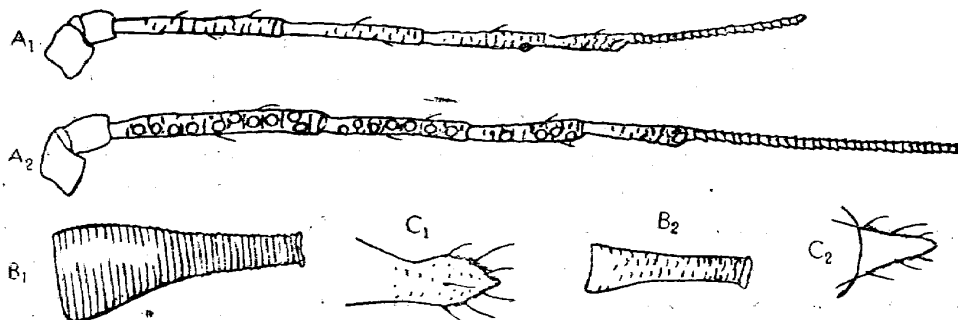


Fig. 4

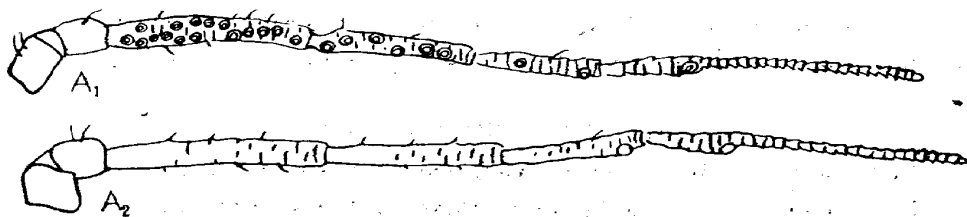


Fig. 5

subcylindric, nearly as long as the front tibia, gradually tapering toward the apex, imbricated and infusate throughout the length. Cauda subconical, somewhat longer than half the length of the cornicle, with 4 pairs of bristles, infusate.

Measurements in mm:

Length of body 0.87

Lengths of antennal articles: (I) 0.03 (II) 0.03 (III) 0.27 (IV) 0.28 (V) base 0.07 flagellum 0.21

Lengths of femora fore 0.18 middle 0.18 hind 0.28

Lengths of tibiae fore 0.35 middle 0.34 hind 0.50

Lengths of corvicle 0.20 Length of cauda 0.09

Host plant.....*Lycopsis Maackianus* MAKINO

Type locality...Morioka, Japan.

Habits.....Infesting young leaves at or near the growing tip of the host plant, this species causes the curling or crumping of the leaves attacked. Very common in July and October.

Japanese name.....Shirone Gosetsuabura

Note. This is the third species of the genus *Cerosipha* found in Japan, the other 2 species being:

*Cerosipha (Aphis) ichigocola* SHINJI, 1924, p. 394.

Japanese name.....Ichigo Gosetsuabura

*Cerosipha (Aphis) serrissae* SHINJI, 1922, p. 799.

Japanese name.....Hakuchoge Gosetsuabura

#### Genus *Aphis*

#### ***Aphis mizutakarashi* SHINJI n. sp.**

Alate viviparous female

(SHINJI; Monogr. Jap. Aphid. pp. 582-586)

Body suboval, dark green, with slender hairs. Head broader than long, infusate. Proboscis reaching to the middle coxa, distal part infusate, basal part being concolourous with the body. Eyes dark red, almost black, with ocular tubercles of the same colour. Antennae 6-articulated, shorter than body, basal parts of III, IV and V light green, the remaining parts and articles being infusate, from distal part of III on to the apex of VI imbricated, I broader than and as long as II, II longer than broad, III shorter than front tibia, provided with about 8 subcircular sensoria, IV longer than V, with about 2 secondary sensoria, V shorter than VI, flagellum of VI about 3 times as long as the base. Thorax well developed, dusky to black on both the dorsum and venter. Wings subhyaline, with veins and pterostigmata yellowish brown, media of fore wings twice branched, hind wings with both media and cubitus present. Cornicles subcylindric, longer than the two tarsal articles of hind legs taken together, imbricated and infusate throughout the length. Cauda rounded, with some long hairs, infusate.

Apterous viviparous female

Body suboval, bluish green with some brownish tint.

Host plant.....*Cardamine lyrata* BUNGE (Mizutagarashi).

Type locality.....Miyakonojo, Miyazaki-ken, Kyushu, Japan.

***Aphis heraclicola* SHINJI n. sp.**

(SHINJI, Monog. Jap. Aphid. P. 583-585).

## Alate viviparous female

Body suboval to oblong, green, lateral papillae prominent. Head infusate, frontal tubercles not prominent. Proboscis reaching beyond the middle legs, black at the distal part, the remaining part light yellow. Eyes red, with ocular tubercles of the same colour. Antennae 6-articulated, infusate throughout the length and imbricated from III on to the apex of VI, I broader than II, II longer than broad, III somewhat shorter than the front femur, provided with 10-14 subcircular sensoria, IV subequal in length with V, provided with 4-8 subcircular sensoria in a row, V longer than twice the base of VI, with 3-4 secondary sensoria in addition to the primary one, the flagellum of VI about 3 times as long as the base. Thorax infusate. Legs moderately long, basal four-fifths part of tibiae green, the remaining part and articles infusate. Wings subhyaline with veins and stigma yellow, fore with media twice branched, the hind wings with both media and cubitus present. Abdomen green with black maculae on the middle part as well as along the lateral margins. Cornicles subcylindric, as long as III antennal article, imbricated and infusate throughout the length. Cauda almost as long as cornicles, constricted near the basal part, provided with 7 long bristles, infusate throughout the length. Anal plate rounded, black.

## Measurements in mm:

Length of body 1.80 Length of fore wing 1.65  
 Lengths of antennal articles: (III) 0.165 (IV) 0.15  
 (V) 0.165 (VI) base 0.10 flagellum 0.30  
 Lengths of femora: fore 0.22 middle 0.21 hind 0.37  
 Lengths of tibiae fore 0.60 middle 0.50 hind 0.82  
 Length of cornicle 0.20 Length of cauda 0.12

## Apterous viviparous female

Body oval, lateral papillae prominent, ground colour green. Head dusky, frontal tubercles not prominent. Proboscis reaching beyond the middle coxae, infusate at the apex only, the rest being light green. Eyes prominent, dark red, accompanied by ocular tubercles of the same colour. Antennae 6-articulated, shorter than body, I, II and VI infusate throughout, the remaining articles light green, III shorter than fore femur, IV and V subequal, the latter with one primary circular sensorium near the apex, flagellum of VI about twice as long as the base which is half as long as V. Both the thorax and abdomen devoid of any black part or maculae. Legs stout, middle part of tibia light green, the remaining part and articles infusate. Cornicles subcylindric, somewhat longer than antennal article III, imbricate and infusate throughout the length. Cauda subconical, shorter than cornicle, black, with about 7 long bristles. Anal plate rounded, with some rather short hairs, dusky to black.

## Measurements in mm:

Length of body 1.35  
 Lengths of antennal articles (I) 0.06 (II) 0.06  
 (III) 0.18 (IV) 0.15 (V) 0.14 (VI) base 0.75 Flagellum 0.21  
 Lengths of femora fore 0.19 middle 0.18 hind 0.22

Lengths of tibiae fore 0.37 middle 0.33 hind 0.50  
 Length of cornicle 0.15 Length of cauda 0.08  
 Host plant.....*Heracleum lanatum* Michx. (Hanaudo).  
 Type locality...Morioka, Japan.

***Aphis taukogi* SHINJI n. sp.**

(SHINJI: Monogr. Jap. Aphid. pp. 577-579).

Alate viviparous female

Body oblong, with some hairs and prominent lateral papillae. Head broader than long, infusate, frontal tubercles not prominent. Eyes prominent, dark red, accompanied by ocular tubercles of the same colour. Proboscis reaching beyond the second coxae, infusate for the most part, provided with a few short hairs. Antennae 6-articulated, shorter than body, infusate throughout the length and imbricated from the apex of III on to the apex of VI, I subequal in length with II but much broader, III the longest except VI, provided with 28-32 small subcircular sensoria, IV longer than V, with 8-18 small subcircular sensoria, V longer than the base of VI but decidedly shorter than twice the base, with 1-8 circular sensoria, the flagellum of VI about 3 times as long as the base. Thorax infusate on both the dorsum and venter. Legs medium in size, with many hairs, basal one-quarter of femur and five-sixths part of tibiae light green, the remaining parts and articles infuscated. Wings with veins and pterostigmata dusky to black, fore wings with media twice branched, hind wings with both media and cubitus present. Abdomen devoid of dorsal black maculation. Cornicles subcylindric, toward the apex gradually tapering, imbricate and infusate throughout the length. Cauda subconical, constricted about the middle, with about 3 pairs of long hairs, concolourous with the body.

Measurements in mm:

Length of body 1.60 Length of fore wing 2.40  
 Lengths of antennal arts: (I) 0.06 (II) 0.06 (III) 0.29  
 (IV) 0.21 (V) 0.19 (VI) base 0.13 flagellum 0.35  
 Lengths of femora fore 0.35 middle 0.35 hind 0.40  
 Lengths of tibiae fore 0.70 middle 0.65 hind 0.85  
 Length of cornicle 0.19; Length of cauda 0.12

Host plant.....*Bidens tripartita* LINNE' (Taukogi)

Type locality...Morioka, Japan.

Notes...Secondary host or hosts of this species have not yet been discovered. It infests the leaves near the growing point. During the months of September to October this species also attacks the flower. Late in November it produces sexual forms, the oviparous females of which lay eggs then.

***Aphis neopolygonii* SHINJI n. sp.**

(SHINJI: Monogr. Jap. Aphid., pp. 533-535)

Alate viviparous female

Body oblong, with some hairs and lateral papillae, of which the mesothoracic and first abdominal ones are larger than any other. Ground colour salmon red. Head dusky, frontal tubercles rather prominent. Proboscis reaching beyond the middle coxal cavity,

distal half infusate, the remaining art being light green. Antennae 6-articulated, shorter than body, imbricated from III on and infuscated throughout the length, with some hairs on each of the articles. I slightly larger than II, III shorter than the front femur, provided with about 5 long hairs and 28-32 subcircular sensoria of various sizes, IV and V subequal in length, the former with 12-15 circular sensoria besides 2 long hairs and the latter provided with 2-5 sensoria and 3 pairs of hairs, flagellum of VI about 3 times as long as the base. Thorax infusate. Legs with the extremities of femur and tibia in addition to tarsi including claws black, the remaining parts and articles light green. Wings subhyaline with veins and pterostigma yellowish brown. Media of fore wing twice branched, hind wings with both media and cubitus present. Abdomen often with dusky maculae along the lateral margins. Cornicles subcylindric, somewhat longer than antennal article IV, imbricated and infusate throughout the length. Cauda subconical, constricted about the middle, with about 5 pairs of long hairs, infusate throughout. Anal plate rounded, with long hairs, black.

Measurements in mm:

Length of body 0.90 Length of fore wing 2.00

Lengths of antennal article: (III) 0.25 (IV) 0.15

(V) 0.11 (VI) base 0.10 flagellum 0.27

Length of femur: fore 0.20 middle 0.20 hind 0.25

Length of tibia: fore 0.50 middle 0.50 hind 0.75

Length of cornicle: 0.10 Length of cauda 0.06

Type locality.....Morioka, Japan.

Host plants.....*Fagopyrum esculentum* MOENCH. and *Barbarea vulgaris*, R. BR. var. *striata*, REGEL.

Japanese name.....Soba Abura

### A List of *Aphis* Found in Japan Proper

The following are a synopsis of *Aphis* found in Japan Proper:

1. *Aphis bambusae* FULLAWAY, Ann. Rept. Hawaii Agri. Expt. St. 1909, p. 35 (1910).  
*Melanaphis bambusae* VAN DER GOOT, Contr. Fauna Indes Neerl, I, no. 3 p. 61 (1917).  
Japanese name—Sasa Abura.
2. *Aphis citriscidus*, KIRKALDY, Proc. Ent. Soc. Hawaii, I, p. 10, (1910).  
*Myzus citricidus* SHIRAKI, Agr. Expt. St. Formosa, Spec. Rept. 8, p. 112 (1913).  
*Aphis taveresi* DEL GUERCIO, Redia, XII p. 217 (1917).  
Japanese name—Mikan Abura.
3. *Aphis aeglis* SHINJI, Journ. Zool, XXXIV, p. 793 (1922).  
Japanese name—Karatachiabura.
4. *Aphis doroserae* TAKAHASHI, Aphid. Form. I, p. 51 (1921).  
Japanese name—Mausengoke Abura.
5. *Aphis flipandulae* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ. VI, 6, p. 385 (1917).

Japanese name—Natsuyuki Abura.

6. *Aphis fukii* SHINJI, Journ. Zool, XXXIV, p. 795 (1922). *Aphis fukis* MONZEN, Monog, Saito Ho-on Kai, i, p. 64 (1929).

Japanese name—Fuki Abura.

7. *Aphis glycines* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ. VII, 6, p. 387 (1917).

Japanese name—Daizu Abura.

8. *Aphis gossypii* GLOVER, Rept. Comm. Agr. U.S.A. 1876, p. 36 (1877).  
*Aphis malvae* KOCH, Die Pflanzenläuse, p. 125 (1857).  
*Aphis tectorum* VAN DER GOOT, Fauna Indes Neerl., I, iii p. 3 (1917).  
*Aphis shirakii* TAKAHASHI, Aphid. Formosa, I, p. 58 (1927).  
*Aphis clerodendri* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ., VII, p. 385 (1917).  
*Aphis colocasiae* MATSUMURA, loc. cit., p. 386 (1918).  
*Aphis gossypii* var. *callicarpae* TAKAHASHI, Aphid. Formosa, I, p. 46 (1921).  
*Aphis vitifoliae* SHINJI, Journ. Zool. XXXIV, p. 800 (1922).  
*Aphis hibiscifoliae* SHINJI, loc. cit. p. 796 (1922).  
*Aphis inugomae* SHINJI, loc. cit., p. 796 (1922).  
*Aphis bryophyllae* SHINJI, loc. cit., p. 793 (1922).  
*Toxoptera odorikonis* MATSUMURA, Journ. Coll. Agri. Tohoku Imp. Univ., p. 387 (1917).  
*Toxoptera leonuri* TAKAHASHI, Aphid. Formosa, I, p. 41 (1921).

Japanese name—Wata Abura.

9. *Aphis horii* TAKAHASHI, Aphid. Formosa II, p. 61 (1923).

Japanese name—Hori Abura.

10. *Aphis ichigo* SHINJI, Journ. Zool. XXXIV, p. 799 (1922).

Japanese name—Ichigo Abura.

11. *Aphis kurosawai* TAKAHASHI, Aphid. Formosa I, p. 53 (1921).

Japanese name—Kuroswawa Abura.

12. *Aphis indigoferae* SHINJI, Journ. Zool., XXXIV, p. 797 (1922).

Japanese name—Komatsunagi Abura.

13. *Aphis laburni* KALTENBACH, Monog. Pflanzenläuse, p. 85 (1857).

*Aphis rumicis* MAKI, Agr. Expt. St. Formosa, 108 (1916).

*Aphis medicaginis* KOCH, Die Pflanzenläuse, p. 94 (1857).

Japanese name—Mame Abura.

14. *Aphis maidis* FITCH, Insects New York, I, p. 318 (1855).

*Siphonaphis* VAN DER GOOT, Contr. Fauna Ind. Neerl., I, p. 67 (1917).

Japanese name—Kibi Abura.

15. *Aphis malvoides* VAN DER GOOT, Contr. Fauna Ind. Neerl., p. 96 (1917).

Japanese name—Geniaoi Abura.

16. *Aphis (Longiunguis) odivae* VAN DER GOOT, Contr. Fauna Ind. Neerl. I, p. 113 (1917).

*Aphis somei* ESSIG and KUWANA, Proc. Cal. Acad. Sci., 4th ser. VIII, pt. 7, p. 75 (1918).

*Aphis rutae* SHINJI, Journ. Zool., XXXIV, p. 799 (1922).

*Aphis Moklen* SHINJI, loc. cit. p. 797 (1922).

*Aphis ficicola* TAKAHASHI, Aphid. Formosa, I, 57 (1921).

*Aphis araliae* MATSUMURA

*Arimakia. araliae* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ., VII, p. 407 (1917).

- Arimakia taranbonis* MATSUMURA, loc. cit., p. 17 (1917).  
Japanese name—Haze Abura.
17. *Aphis perillae* SHINJI, Journ. Zool., XXXIV, 798 (1922).  
Japanese name—Shiso Abura.
18. *Aphis nerii* FONSCOLOMBE, Ann. Soc. Ent. France, X, p. 179 (1841).  
Japanese name—Kiochikutau Abura.
19. *Aphis pirifoliae* SHINJI, Journ. Zool., XXXIV, p. 798 (1922).  
Japanese name—Nashi Abura.
20. *Aphis polygonacea* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ. VII, 6, p. 389 (1917).  
Japanese name—Tade Abura.
21. *Aphis pomi* DEGEER, Mem. des Ins., III, p. 53 (1773).  
*Aphis kogomecola* MATSUMURA, Journ. Coll. Agr. Tohoku Imp. Univ., VII, 6, p. 388 (1917).  
*Aphis croomiae* SHINJI, Journ. Zool. XXXIV, p. 794 (1922).  
*Aphis deutziae* SHINJI, loc. cit., p. 795 (1922).  
Japanese name—Ringo Abura.
22. *Aphis punicae* SHINJI, Journ. Zool. XXXIV, p. 798 (1922).  
Japanese name—Zakuro Abura.
23. *Aphis rumicis* LINNÉ, Syst. Nat. 10th Ed., I, I, p. 451 (1758).  
*Aphis atriplicis* FABRICIUS, Syst. Ent., p. 736 (1775).  
*Aphis euonymi* FABRICIUS, loc. cit., p. 736 (1775).  
*Aphis papaveris* FABRICIUS, Gene. Ins., p. 303 (1776).  
*Aphis viciae* FABRICIUS, Spec. Ins., p. 390 (1781).  
*Aphis thlaspeos* SCHRANK, Fn. Boica, II, p. II' (1801).  
*Aphis armata* HAUSMANN, Ill Msg., Zool. I, p. 439 (1802).  
Japanese name—Gishigishi Abura.
24. *Aphis succhari* ZEHNTNER, Arch. Java Suiker-Industrie, IX, p. 674 (1901).  
*Aphis miscanthi* TAKAHASHI, Aphid. Formosa, I, p. 55 (1921).  
*Aphis formosanus* TAKAHASHI, Aphid. Formosa, I, p. 54 (1921).  
Japanese name—Susuki Abura.
25. *Aphis saliceti* KALTENBACH, Monog. p. 103 (1843).  
*Aphis yanagicola* MATSUMURA, Journ. Coll. Agri. Tohoku Imp. Univ., VII, p. 390 (1917).  
Japanese name—Yanagi Abura.
26. *Aphis sambuci* LINNÉ, Syst. Nat., I, p. 735 (1767).  
Japanese name—Niwatoko Abura.
27. *Aphis smilacifoliae* TAKAHASHI, Aphid. Formosa, I, p. 49 (1921).  
Japanese name—Sarutori Abura.
28. *Aphis utsugicola* MONZEN, Saito Ho-on Kai Monog. 2, p. 54 (1929).  
Japanese name—Utsugi Abura.

## Explanation Figures

## FIG. 1

*Cerosipha lycopicola* SHINJI

Antenna and cauda of alate viviparous female

## FIG. 2

*Aphis mizutakarashi* SHINJI